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مراجعات المتخصص

جروب فريق أصدقاء الكمبيوتر

4th. Primary

Shaimaa Al-Bawab

fatom

Theme 1 Lesson 1 Scientific Exploration Tools

There are many technological devices that explorers use in surveying and exploration operations to search for things buried underground, like minerals, artifacts, and treasures.

☎Technological Tools Used in Exploring the Earth

First:Tools for Locating Objects Underground

Rover C4 Device
It is an advanced metal detector and 3D ground scanner, specifically designed to search for buried treasures and metal objects underground, The device can create 3D

Ground Penetrating Radar Device:
Uses radar to find objects buried underground

Magnetometer Device:
A device that measures the magnetic field and can be used to find metals underground.

Second :Tools for Locating Objects Above Ground

Drone

Global Positioning System
is used to reach places you want to go by connecting to satellites

Satellites
for obtaining images

Theme 1 Lesson 2 Computers and Their Components

Computer:It is an electronic device that stores, processes, and retrieves data.

Uses of a Computer

1. Writing.
2. Browsing the Internet.
3. Playing electronic games.
4. Creating presentations.

Forms of Computers

Touch | Tablet | laptop | Personal computer

Computer components are divided into :

1-hard Ware
2- Software

Hardware is divided into input units and output units

Output Units			Input Units		
Speech Synthesizer		Screen	Microphon	Mouse	Keyboard
Printer	Speakers	Braille Terminal	Touch Screen	Scanner	Camera

How a computer works is based on

1) Receiving Data 2)Processing Data
3) Displaying results as Information through output units

The quality of the output depends on

- The data entered.
- The user's knowledge of how to use the devices

Theme 1 Lesson 3 Operating Systems

How do we use our devices?

-play -browse the internet -write notes.

Central Processing Unit: This unit controls how data is processed

Note : Therefore, it is important to save your work .

Software:

The Software
- like Microsoft Word.
- like Microsoft Excel.
- like PowerPoint

The Operating System (OS)
The program asks the operating system to open and run it.

Assistive Technology It helps people with special needs - enabling them to perform tasks they find difficult to do

types of assistive technology:

Screen Magnification Software
These are programs that enlarge everything on the computer screen, words and images, helping visually impaired people interact with the computer.

Alternative Communication

Helps people with speech and language difficulties communicate with others.

Examples include programs that convert text to speech,or speech to text

Hearing Aids

Help people who have difficulty hearing, and modern versions can be connected to smartphones.

Sports Tools

For example: prosthetic limbs for practicing sports like specialized mountain climbing tools for people who have lost a limb, enabling them to practice climbing

Theme 1 Lesson 5 Common Problems

Problem Mouse pointerdoesn't work	**Problem** Application won't open
solution: •Make sure the mouse cable is connected correctly to the motherboard. • restart the device afterwards. •there might be a defect in the mouse and it needs replacement.	**solution:** •Restart your device and try again. • check that your program is updated to the latest version. • uninstall and reinstall the application

Problem Screen is frozen:	**Problem** Keyboard doesn't type
solution: •Press and hold the Ctrl + Alt + Del keys together. •If this option doesn't work, try turning off the device and restarting it.	**solution:** •Make sure the keyboard cable is connected correctly to the motherboard. • restart the device afterwards. •there might be a defect in the keyboard and it needs replacement.

Problem:Can't find the file:

solution: •Check the Downloads folder. If you're looking for a Word file, search in the Documents folder.
•If you're looking for a picture, search in the Pictures folder.
•Or try using the search box next to the Start button

Note! If you can't solve any problem, ask your teacher or a family member for help.

Theme 1 Lesson 6 Collecting, Analyzing, and Representing Data in Graphs

Scientists in all types of sciences collect data

collect data — Analyzing Data — Representing Data

Representing Data
represented graphically and expressed through many programs

Analyzing Data
reviewing results and interpreting their meaning

types of assistive technology:

Where does data come from?

Records — Books — Experiments — Questionnaires

Benefits of Excel

- Helps understand the collected data.
- Displays data in a clear and concise way.

Theme 2 Lesson 1 Protection from Internet Risks Solutions

Ways to Communicate via the Internet You can use:

• computers, phones, or tablets to communicate..

Communication via the Internet

Instant Text Messaging — Direct Messages — Email — Forums for communication

Note your personal information, such as: your address, your name, and your school's name.

you must protect your data by:

- Blocking the person.
- Ignoring annoying Spam messages which pose a risk

•If you enter an unsafe or inappropriate site, don't worry:

✵Leave the site immediately. ✵Check privacy settings.

✵Tell your teacher or a family member.

✵Think carefully before posting anything

Note: Check the site before downloading any file. Is it a trusted site? If you are not sure, you should not download files from it.

First: When you tag something online, think if you are respecting the people you are tagging.

When you tag someone, you identify them in a post, picture, or video, and anyone with access to your account can see it.

•So ask your friends first if they agree to be tagged before you post.

Second: Make sure you attribute information to its sources

Whether you are searching for information to share or to present in a presentation (PowerPoint), it is important for others to know where you got this information from .

Third: Respect the law :

Do not enter blocked sites. These sites may contain inaccurate, unethical, or harmful content, so consult your teacher or a family member before entering any new site.

Positive and Negative Effects of ICT Tools

Positives	negatives
Easy access to required information and downloading videos with a click of a button	•Facing annoying things online. •Exposure to eye strain or headache •Search results on Google may not always be correct or accurate

Theme 2 Lesson 3 Internet Search Operations

First: Searching Safely

If a warning message appears, talk to your teacher or a family member to protect you and handle the matter wisely without harm to you, and in all matters avoid.

- ▽ Search engines dedicated to children. This measure will help you display age-appropriate results.
- ▽ Watching videos online is fun, but you must choose sites suitable for you. You can use filters to avoid inappropriate

Second: Searching Smartly

Searching the internet can be as simple as typing, but if you are searching for information in an image.

Ways to Search Smartly

Including Specific Words:

•Some words like: (or) -- (how) -- (where) -- (and) -- (the) are ignored.

•If you want to include this word in the search, put a (+) before it.

Excluding Specific Words

•If you want to avoid results related to a specific word → put a (--) before the word

Searching for a Specific Phrase

•Put the phrase between quotation marks " "

Theme 2 Lesson 4 Authorities Responsible for Solving

Cyberbullying

•Sometimes you are exposed to some harassment or cyber bullying on the internet. This means that someone is tagging or sending you messages containing words that offend you repeatedly.

Ways to Deal with Cyberbullying Online

1. Using Blocking (Block)
2. Asking for Help from Those Around You
3. Resorting to the Specialized Authorities

Theme 2 Lesson 5 A Personal Plan for Digital Security Internet Problems

The safest way to use the internet

- ✓ **First:** Digital Security
- ✓ **Second:** Choose an Antivirus Program

creating a password

- ✓ Do not use the same password for all your accounts
- ✓ consists of at least 8 haracters
- ✓ Do not use your personal information

Antivirus Program

Programs to detect viruses and malware. They may also repair files damaged by viruses.

Theme 2 Lesson 6 Practical Project

• tools used to display the report you will create:

Presentations using PowerPoint	▪ you can add beautiful effects, texts, images, and even sound effects to your digital report. ▪ This helps you present your information in a fun and engaging way.
Video Clips	▪ used to conduct instant conversations between people via devices attached to your computer ▪ Many devices have their own camera, like portable devices (laptop - mobile phone).
posters	▪ it must contain appropriate colors, graphics, images, clippings، ▪ font sizes for main and subheadings, and they should be easy to read.

With our best wishes for success